

City of Lowell
Job Description
Please Post- June 24, 2014
Deadline- Open Until Filled
Department of Public Works
Electrician Grade B Journeyman

Job Title: Electrician Grade B Journeyman (2000-78, 2035)
Department: Public Works: Electrical Division
Reports To: City Electrician and other designated personnel as required
FLSA Status: Non-exempt
Union Status: AFSCME 1705
Salary: \$17.0373 (min) to \$24.2380 (max) per hour

SUMMARY

Supervises and works with electrical employees engaged in construction, maintenance and repair of electric power, municipal traffic and fire alarm maintenance systems and lighting by performing the following duties.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.

Plans wiring and installation of equipment and fixtures such as motors, generators, switches, circuit breakers, and fuse boxes.

Inspects wiring and fixtures for conformance to local electrical codes.

Studies production schedules and estimates worker hour requirements for completion of job assignment.

Uses common hand tools and electrical test equipment.

Interprets City policies to workers and enforces safety regulations.

Interprets specifications, blueprints, and job orders to workers, and assigns duties.

Installs, maintains, adjusts and repairs traffic lights, signal and control devices including aerial or underground circuits.

Maintains fire alarms and traffic signal devices throughout the City.

Performs tests and troubleshooting of circuits and equipment.

Locates and replaces faulty parts, switches, fuses, wiring and other components relative to traffic and fire alarm maintenance.

Repairs fire and/or police signal systems consisting of boxes, registers, switches, relays, lights, switchboards, bells, sirens, circuits and cables.

Recommends measures to improve production methods, equipment performance, and quality of product.

Suggests changes in working conditions and use of equipment to increase efficiency of shop, department, or work crew.

Analyzes and resolves work problems, or assists workers in solving work problems. May

maintain time and production records.

May estimate, requisition, and inspect materials.

Confers with supervisors to coordinate activities of individual departments.

Sets up machines and equipment.

Performs skilled electrical work at the journeyman level.

Installs, tests, repairs, troubleshoots and maintains electrical circuits, wiring systems, fixtures, appliances and equipment.

Troubleshoots and repairs faulty wiring, defective equipment and machinery such as motors, generator, transformer, switches, sockets etc.

Operates motor vehicles in conjunction with electrical duties.

Performs activities of workers supervised.

SUPERVISORY RESPONSIBILITIES

May directly supervise 2-3 employees. Carries out supervisory responsibilities in accordance with the organization's policies and applicable laws. Responsibilities include training employees; planning, assigning, and directing work; and resolving problems.

QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

EDUCATION and/or EXPERIENCE

Two years of related experience required. Knowledge of state and local electrical codes. Knowledge of the principles and theory of electricity. Knowledge of the types and uses of small hand tools used in electrical practice. Knowledge of the types and uses of equipment including testing equipment used in electrical trade. Knowledge of inspection techniques used in trade. Skill in using small hand tools. Skill in the use of precision measuring equipment, gauges and instrumentation used in electrical work. Ability to understand and explain and apply the laws and regulations governing assigned unit activities. Ability to follow oral and written instructions. Ability to make decisions and act quickly in emergency situations. Ability to climb and work from ladders and other equipment. Ability to install, maintain and repair electrical wiring systems and equipment. Ability to detect and locate causes of electrical failure or breakdown of equipment. Ability to work with tools, materials and equipment of the electrical trade. Knowledge of the methods and techniques of testing fire alarm systems. Knowledge of the procedures and methods followed in installing, maintaining and repairing fire alarm systems. Knowledge of testing street lighting systems. Knowledge of the methods and techniques of testing traffic control systems.

LANGUAGE SKILLS

Ability to read and interpret documents such as safety rules, operating and maintenance instructions, and procedure manuals. Ability to write routine reports and correspondence.

MATHEMATICAL SKILLS

Ability to add, subtract, multiply, and divide in all units of measure, using whole numbers,

common fractions, and decimals. Ability to perform algebraic calculations to determine voltage, amperage and resistance factors. Ability to compute ratio, and percent and to draw and interpret bar graphs.

REASONING ABILITY

Ability to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists. Ability to interpret a variety of instructions furnished in written, oral, diagram, or schedule form.

LICENSES

MA Journeyman Electrical License required.

PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is frequently required to stand; walk; sit; use hands to finger, handle, or feel; reach with hands and arms; climb or balance; stoop, kneel, crouch, or crawl; talk or hear; and taste or smell. The employee must frequently lift and/or move up to 100 pounds and occasionally lift and/or move more than 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, and depth perception.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is frequently exposed to wet and/or humid conditions; moving mechanical parts; high, precarious places; fumes or airborne particles; toxic or caustic chemicals; outside weather conditions; extreme cold; extreme heat; risk of electrical shock; and vibration. The employee is occasionally exposed to explosives and risk of radiation. The noise level in the work environment is usually moderate.

The City of Lowell is a smoke and drug free employer and requires a physical with drug screen and CORI, post offer.

Qualified/interested individuals send resume and/or application to the Human Relations Office, RM 19– City Hall, 375 Merrimack St., Lowell, MA 01852 by 4:00PM: Deadline: Open Until Filled. Applicants may also send resume and/or application to fax #978-446-7102 or email to cityjobs@lowellma.gov

EOE/AA/504 Employer